

## Scientific and educational center of space researches and technologies in Kazan federal university

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### Abstract

© SGEM2017. All Rights Reserved. The modern major project on creation a unique, scientific, educational, and technological Center of space researches and technologies was launched on the base of Engelhardt Astronomical Observatory (EAO) of Kazan Federal University in 2008. In EAO educational activity in the fields of training and retraining of specialists is conducted; scientific and practical training courses take place on the following educational programs: space geodesy and remote sensing, astronomy, radio astronomy. It should be noted, currently, it is necessary to develop high-tech stations and observatories, provide education in the fields of space geodesy and geophysics, and popularize the space knowledge. Kazan Federal University is one of the leading centers of Russia and the world in astronomy and space geodesy in terms of both training and fundamental and applied investigations. The scientific data which had been obtained by Kazan astronomers was used in the preparation for the missions to the Moon and Mars. In Kazan the leading scientific schools in the fields of stellar atmosphere astrophysics, space geodesy, and geophysics were established. All this allowed creating the scientific center where more than 7500 students take a short educational course on space studies annually and where classes on space knowledge popularization are taught for 25000 visitors. The scientific and educational center on the base of EAO is the first in the world complex combining the operating astronomical observatory and modern planetarium. There is a metrological geophysical testing ground operating in EAO. Such an approach allows creating a professional environment for learning about the Earth and Universe and increasing the interest in both historical and modern space concepts.

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### Keywords

Geophysics, Planetarium, Science and technology education center, Space geodesy

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